

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2004年8月5日 (05.08.2004)

PCT

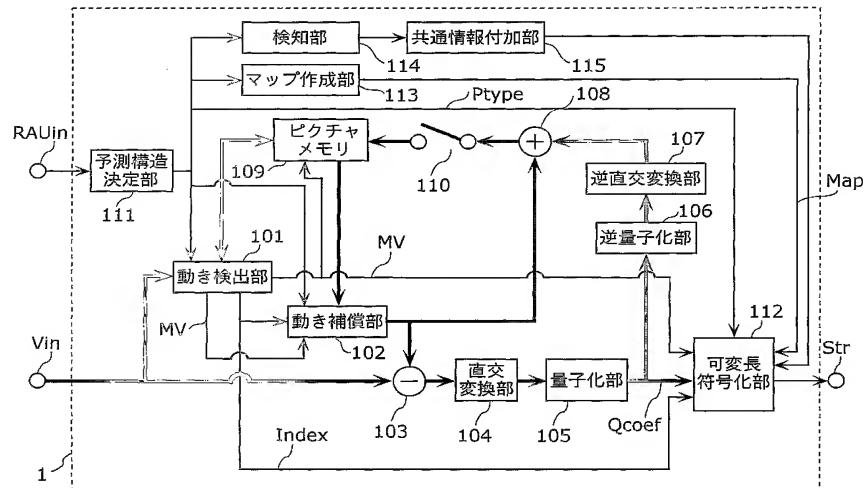
(10) 国際公開番号  
WO 2004/066635 A1

(51) 国際特許分類<sup>7</sup>: H04N 7/32, 7/08, 5/92  
 (21) 国際出願番号: PCT/JP2003/015454  
 (22) 国際出願日: 2003年12月3日 (03.12.2003)  
 (25) 国際出願の言語: 日本語  
 (26) 国際公開の言語: 日本語  
 (30) 優先権データ:  
 特願2003-10297 2003年1月17日 (17.01.2003) JP  
 (71) 出願人(米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒571-8501 大阪府門真市大字門真1006番地 Osaka (JP).  
 (72) 発明者; および  
 (75) 発明者/出願人(米国についてのみ): 角野 真也  
 (KADONO,Shinya) [JP/JP]; 〒662-0871 兵庫県西宮市愛宕山8丁目3番 ホープ愛宕2-203号 Hyogo (JP).  
 (74) 代理人: 新居 広守 (NII,Hiromori); 〒532-0011 大阪府大阪市淀川区西中島3丁目11番26号 新大阪末広センタービル3F 新居国際特許事務所内 Osaka (JP).  
 (81) 指定国(国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.  
 (84) 指定国(広域): ARIPO 特許 (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特

/統葉有/

(54) Title: MOVING PICTURE ENCODING METHOD AND MOVING PICTURE DECODING METHOD

(54) 発明の名称: 動画像符号化方法および動画像復号化方法



114...DETECTION SECTION  
 115...COMMON INFORMATION ADDITION SECTION  
 113...MAP CREATION SECTION  
 111...PREDICTION STRUCTURE DECISION SECTION  
 109...PICTURE MEMORY  
 101...MOTION DETECTION SECTION

102...MOTION COMPENSATION SECTION  
 107...INVERSE ORTHOGONAL CONVERSION SECTION  
 106...DE-QUANTIZATION SECTION  
 104...ORTHOGONAL CONVERSION SECTION  
 105...QUANTIZATION SECTION  
 112...VARIABLE LENGTH ENCODING SECTION

(57) Abstract: A moving picture encoding device (1) includes a map creation section (113) for creating an information map for variable speed reproduction which is information required for variable speed reproduction for the picture type Ptype, a variable length encoding section (112) for encoding and arranging the information map for variable speed reproduction on an encoding stream Str, a detection section (114) for detecting necessity of encoding of the picture parameter set PPS referenced by a picture to be encoded, and a common information addition section (115) for adding the picture parameter set PPS whose encoding has been detected to be necessary by the detection section (114) to the picture to be encoded.

/統葉有/

WO 2004/066635 A1

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15454

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H04N7/32, H04N7/08, H04N5/92

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H04N7/00-7/088, H04N7/24-7/68, H04N7/12, H04N5/76-5/956

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 8-186794 A (Sony Corp.), 16 July, 1996 (16.07.96), Par. Nos. [0030], [0039], [0048] to [0057]; table 3; Fig. 2 & EP 720378 B1 & US 5768470 A & CN 1128387 A	1,2,7,10-12, 17,21-25
X	JP 2000-354224 A (Hitachi, Ltd.), 19 December, 2000 (19.12.00), Par. Nos. [0026] to [0028], [0036] to [0038]; Fig. 5 & JP 8-235833 A & EP 729153 B1 & US 6002834 A & CN 1135072 A & KR 227417 B1	1,3,6-11,13, 16-25

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	earlier document but published on or after the international filing date
"E" earlier document but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means		document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 14 January, 2004 (14.01.04)	Date of mailing of the international search report 03 February, 2004 (03.02.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP03/15454

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-9085 A (Mitsubishi Electric Corp.), 10 January, 2003 (10.01.03), Par. Nos. [0148] to [0157]; Fig. 5 (Family: none)	1,3-5,7,10, 11,13-15,17, 20-25
X	WO 95/23411 A1 (Sony Corp.), 31 August, 1995 (31.08.95), Page 3, lines 11 to 17; page 4, lines 11 to 13; page 9, line 9 to page 10, line 2; page 16, lines 15 to 23; page 25, line 6 to page 26, line 17; Figs. 4, 8, 15 to 17 & EP 696798 A1 & US 6075920 A & AU 95-14249 A & BR 95-05850 A & MX 95-04123 A & RU 2158969 C2 & KR 342120 B1	1,3-5,7,10, 11,13-15,17, 20-25
A	Kenji SUGIYAMA, "Chikuseki Baitaiyo Dogazo Fugoka Hoshiki no Gijutsu Doko", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 09 January, 2003 (09.01.03), Vol.102, No.552, pages 1 to 6	1-25

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15454

### Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The technical feature common to claims 1-25 relates to encoding of information for variable speed reproduction and addition of it to a moving picture encoding stream. However, this technical feature is not novel since it is disclosed in documents JP 8-186794 A (Sony Corp.), JP 2000-354224 A (Hitachi Ltd.), JP 2003-9085 A (Mitsubishi Electric Corp.), and WO 95/23411 A1 (Sony Corp.). As a result, the aforementioned technical feature makes no contribution over the prior art and cannot be a special technical feature within the meaning of PCT Rule 13.2, second sentence.

Accordingly, it is obvious that claims (1, 2, 11, 12, 21-25), (3-6, 13-16), (7-9, 17-19), 10, 20 do not satisfy the requirement of unity of invention.

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest     The additional search fees were accompanied by the applicant's protest.  
                             No protest accompanied the payment of additional search fees.